

What is claimed is:

1. A radio transmission apparatus based on a hybrid ARQ scheme that retransmits transmission data to a reception apparatus based on a retransmission request from said reception apparatus, selecting retransmission parameters in such a way that reception power of initial transmission data and all said retransmission data increases when said reception apparatus receives and combines the retransmission data.
10
2. A radio communication apparatus based on a hybrid ARQ scheme that retransmits transmission data to a reception apparatus based on a retransmission request from said reception apparatus, comprising:
 - a transmission count estimation section that estimates a transmission count based on a retransmission request from said reception apparatus;
 - 20 a coding rate calculation section that calculates a coding rate based on a set modulation scheme, transmission data and the number of codes;
 - 25 a selection section that selects retransmission parameters based on said set modulation scheme, the estimated transmission count estimated by said transmission count estimation section and coding rate calculated by said coding rate calculation section in such a way that reception power of all retransmission data at said reception apparatus increases; and

a coding section that codes said transmission data based on the selected retransmission parameter selected by said selection section and generates retransmission data.

5

3. The radio transmission apparatus according to claim 2, wherein said selection section stores a table in which retransmission parameters are set based on said estimated transmission count and said coding rate for each said 10 modulation scheme.

4. A radio transmission apparatus based on a hybrid ARQ scheme that retransmits transmission data to a reception apparatus based on a retransmission request from said 15 reception apparatus, comprising:

a transmission count estimation section that estimates a transmission count based on a retransmission request from said reception apparatus;

a coding rate calculation section that calculates 20 a coding rate based on a set modulation scheme, transmission data and the number of codes;

an RV estimated transmission count setting section that sets an estimated transmission count for a retransmission parameter based on said set modulation 25 scheme, estimated transmission count estimated by said transmission count estimation section and coding rate calculated by said coding rate calculation section;

a selection section that selects retransmission

parameters based on said set modulation scheme, the RV estimated transmission count for retransmission parameters set by said RV estimated transmission count setting section and coding rate calculated by said coding rate calculation section in such a way that reception power of all retransmission data at said reception apparatus increases; and

10 a coding section that codes said transmission data based on the retransmission parameter selected by said selection section and generates retransmission data.

5. The radio transmission apparatus according to claim 4, wherein said selection section stores a table in which retransmission parameters are set based on said RV estimated transmission count and said coding rate for each said modulation scheme.

6. A radio transmission method based on a hybrid ARQ scheme that retransmits transmission data to a reception apparatus based on a retransmission request from said reception apparatus, comprising a step of selecting a retransmission parameter in such a way that reception power of initial transmission data and all said retransmission data increases when said reception apparatus receives and combines the retransmission data.

25 7. A radio transmission method based on a hybrid ARQ scheme that retransmits transmission data to a reception

apparatus based on a retransmission request from said reception apparatus, comprising:

15 a transmission count estimation step of estimating a transmission count based on a retransmission request from said reception apparatus;

a coding rate calculation step of calculating a coding rate based on a set modulation scheme, transmission data and the number of codes;

10 a selection step of selecting retransmission parameters based on said set modulation scheme, said estimated transmission count and said calculated coding rate in such a way that reception power of all retransmission data at said reception apparatus increases; and

15 a coding step of coding said transmission data based on said selected retransmission parameter and generating retransmission data.

20 8. A radio transmission method based on a hybrid ARQ scheme that retransmits transmission data to a reception apparatus based on a retransmission request from said reception apparatus, comprising:

25 a transmission count estimation step of estimating a transmission count based on a retransmission request from said reception apparatus;

a coding rate calculation step of calculating a coding rate based on a set modulation scheme, transmission data and the number of codes;

an RV estimated transmission count setting step of
setting an RV estimated transmission count for a
retransmission parameter based on said set modulation
scheme, said estimated RV estimated transmission count
5 and said calculated coding rate;

a selection step of selecting retransmission
parameters based on said set modulation scheme, said RV
estimated transmission count for said set retransmission
parameter and said calculated coding rate in such a way
10 that reception power of all retransmission data at said
reception apparatus increases; and

a coding step of coding said transmission data based
on said selected retransmission parameter and generating
retransmission data.